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ASSESSMENT REPORT

Report No.: 27470IDT.009

REPORT ON: RF EXPOSURE ASSESSMENT OF THE F3507g ERICSSON

MOBILE BROADBAND MODULE INSTALLED IN THE DELL

P01S LAPTOP COMPUTER

Product : Ericsson Mobile Broadband Module

Trade Mark : Ericsson
Model : F3507g

FCC ID: : VV7-MBMF3507G-D

Manufacturer: Ericsson ABRequested by: Ericsson ABHost Platform: DELL P01S

Standard(s) : OET Bulletin 65 Edition 97-01 August 1997

FCC 47 CFR § 1.1307 FCC 47 CFR § 1.1310

1999/519/EC

Radiocommunications (Electromagnetic Radiation -

Human Exposure) Standard 2003

ARPANSA RPS No. 3

Vodafone requirements [1999/519/EC]

This test report includes 2 annexes and therefore, the total number of pages is 22.

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Date: 2008-09-02

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1. COMPETENCE AND GUARANTEES

AT4 wireless is a testing laboratory competent to carry out the evaluation described in this report.

AT4 wireless guarantees the reliability of the data presented in this report, which is based on the information available at AT4 wireless at the time of performance of the evaluation.

AT4 wireless is liable to the client for the maintenance of the confidentiality of all information related to the item under review and the results of such evaluation

2. GENERAL CONDITIONS

- 1. This report refers only to the item that has undergone the evaluation as described in Annex A of this report according to the information provided by the applicant.
- 2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
- 3. This document is only valid if complete; no partial reproduction can be made without previous written permission of AT4 wireless.
- 4. This report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of AT4 wireless and the Accreditation Bodies.

3. CHARACTERISTICS OF THE EVALUATION

3.1. SERVICES REQUESTED

RF exposure assessment of the F3507g Ericsson Mobile Broadband Module installed in the DELL P01S laptop computer according to:

Requirements	Frequency bands
OET Bulletin 65 Edition 97-01 August 1997 - Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields FCC 47 CFR § 1.1307 - Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared. FCC 47 CFR § 1.1310 - Radiofrequency radiation exposure limits.	GSM 850, FDD V, PCS 1900, FDD II
1999/519/EC Council Recommendation on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)	E-GSM 900, DCS 1800, FDD I

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Radiocommunications (Electromagnetic Radiation – Human Exposure) Standard 2003 ARPANSA RPS No. 3 – Maximum Exposure Levels to Radiofrequency Fields (3 kHz to 300 GHz)	FDD V, E-GSM 900, DCS 1800, FDD I
Vodafone requirements [1999/519/EC]	GSM 850, FDD V, E-GSM 900, DCS 1800, PCS 1900, FDD II, FDD I

3.2. REQUIREMENTS AND METHOD

The evaluation has been carried out according to the following documents and standards:

Requirements	Frequency bands
OET Bulletin 65 Edition 97-01 August 1997 - Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields	
FCC 47 CFR § 1.1307 - Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.	GSM 850, FDD V, PCS 1900, FDD II
FCC 47 CFR § 1.1310 - Radiofrequency radiation exposure limits.	
1999/519/EC Council Recommendation on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)	E-GSM 900, DCS 1800, FDD I
Radiocommunications (Electromagnetic Radiation – Human Exposure) Standard 2003	
ARPANSA RPS No. 3 – Maximum Exposure Levels to Radiofrequency Fields (3 kHz to 300 GHz)	FDD V, E-GSM 900, DCS 1800, FDD I
Vodafone requirements [1999/519/EC]	GSM 850, FDD V, E-GSM 900, DCS 1800, PCS 1900, FDD II, FDD I

4. IDENTIFICATION DATA SUPPLIED BY THE APPLICANT

Identification data included in this section has been supplied by the client.

4.1. APPLICANT

Name / Company: Ericsson AB

V.A.T. Registration number: 556056-625801

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Address: Lindholmspiren 11, SE-417 56 Goteborg

Country: Sweden

Telephone: +46 31 747 0000 **Fax:** +46 31 747 6033

4.2. REPRESENTATIVE

Name: Pelle Hellberg

Address: Lindholmspiren 11, SE-417 56 Goteborg

Country: Sweden

4.3. IDENTIFICATION OF ITEM/ITEMS EVALUATED

Product: Ericsson Mobile Broadband Module

Trade mark: Ericsson Model: F3507g FCC ID: VV7-MBMF3507G-D

Manufacturer: Ericsson AB

Country of manufacture: China

Host platform: DELL P01S

Description: 850/900/1800/1900/2100 MHz GSM/GPRS Class10/EDGE/HSDPA/HSUPA/WCDMA

Release 6 Module installed in a DELL P01S Laptop.

5. EVALUATION RESULTS

Abbreviations used in the VERDICT column of the following tables are:

C Compliant with requirements

NC Not Compliant with requirements

NA Not Applicable

NE Not Evaluated

5.1. RESULTS FOR ITEM EVALUATED TRANSMITTING ALONE

DOCUMENT/STANDARD -		VERDICT			
		C	NC	NE	
OET Bulletin 65 Edition 97-01 August 1997 - Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields		C			
FCC 47 CFR § 1.1307 - Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared. FCC 47 CFR § 1.1310 - Radiofrequency radiation exposure limits.		C			

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1999/519/EC Council Recommendation on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)	С
Radiocommunications (Electromagnetic Radiation – Human Exposure) Standard 2003 ARPANSA RPS No. 3 – Maximum Exposure Levels to Radiofrequency Fields (3 kHz to 300 GHz)	С
Vodafone requirements [1999/519/EC]	С

5.2. RESULTS FOR ITEM EVALUATED TRANSMITTING SIMULTANEOUSLY WITH OTHER CO-LOCATED TRANSMITTERS

DOCUMENT/STANDARD -		VERDICT		
DOCUMEN I/STANDARD	NA	C	NC	NE
OET Bulletin 65 Edition 97-01 August 1997 - Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields		C		
FCC 47 CFR § 1.1307 - Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.		C		
FCC 47 CFR § 1.1310 - Radiofrequency radiation exposure limits.				
1999/519/EC Council Recommendation on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)		C		
Radiocommunications (Electromagnetic Radiation – Human Exposure) Standard 2003 ARPANSA RPS No. 3 – Maximum Exposure Levels to Radiofrequency Fields (3 kHz to 300 GHz)		C		
Vodafone requirements [1999/519/EC]		С		

6. REMARKS AND COMMENTS

GSM and GPRS modes have been evaluated together because both modes share the same power class and modulation scheme in the uplink.

WCDMA and HSDPA modes have been evaluated together because HSDPA is an improved mode of operation only for Downlink (equipment reception), but using the normal WCDMA mode for the Uplink (equipment transmission).

7. SUMMARY

Considering the results of the performed analysis and evaluation, stated in annexes A and B, the item under evaluation is **IN COMPLIANCE** with the specifications listed in section 3.1 " SERVICES REQUESTED".

NOTE: The results presented in this report apply only to the particular item under evaluation established in section "4.3. IDENTIFICATION OF ITEM/ITEMS EVALUATED" of this document, as presented for evaluation by the applicant.

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ANNEX A

HOST PLATFORM ANALYSIS

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A.1. INTRODUCTION

DELL P01S is a widescreen laptop computer which can be fitted with the following transmitters:

MAIN/PRIMARY TRANSMITTER:

WWAN transmitter:

Type of equipment : Ericsson Mobile Broadband Module

Trade mark : Ericsson Model : F3507g

FCC ID : VV7-MBMF3507G-D

ADDITIONAL/SECONDARY TRANSMITTERS:

Bluetooth transmitter:

Type of equipment : Bluetooth 2.0 + EDR

Trade mark : Dell

Model : Wireless 370 FCC ID : QDS-BRCM1034

WLAN transmitters:

Type of equipment : 802.11abgn WLAN transmitter

Trade mark : Intel

Model : WiFi Link 5300 FCC ID : E2K533ANH

A.2. ANTENNAS INFORMATION

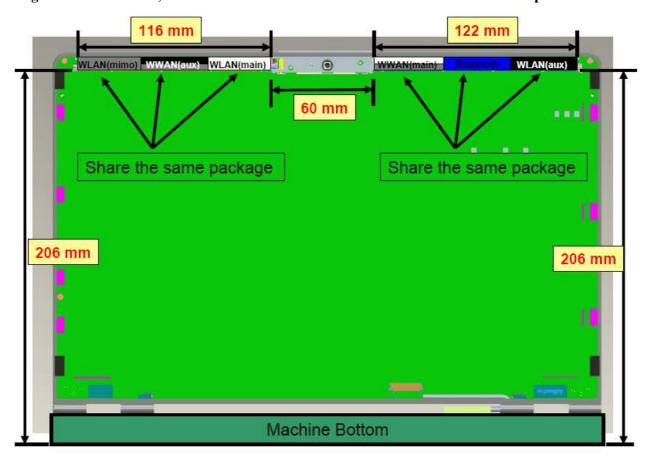
Antennas locations and distances – Option 1:

Antenna	Antenna location	Maximum antenna gain (dBi)	Antenna to user distance (mm)	Antenna to WWAN Tx antenna distance (mm)
WWAN MAIN	Top right corner of the display	1,6	206	-
WLAN MAIN	Top left corner of the display	3	206	< 200
WLAN AUX	Top right corner of the display	3	206	< 200
WLAN MIMO	Top left corner of the display	3	206	< 200
Bluetooth	Top right corner of the display	3	206	< 200

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Diagram of the WWAN, WLAN and Bluetooth transmitters' antennas locations – Option 1:



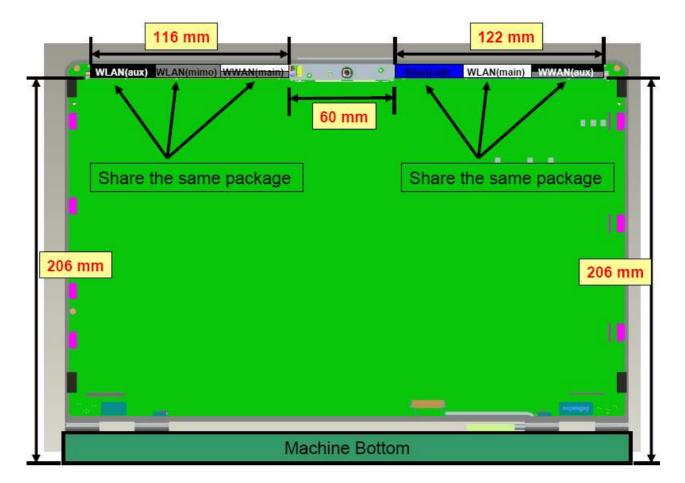
Antennas locations and distances – Option 2:

Antenna	Antenna location	Maximum antenna gain (dBi)	Antenna to user distance (mm)	Antenna to WWAN Tx antenna distance (mm)
WWAN MAIN	Top left corner of the display	1,6	206	-
WLAN MAIN	Top right corner of the display	3	206	< 200
WLAN AUX	Top left corner of the display	3	206	< 200
WLAN MIMO	Top left corner of the display	3	206	< 200
Bluetooth	Top right corner of the display	3	206	< 200

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Diagram of the WWAN, WLAN and Bluetooth transmitters' antennas locations - Option 2:



CONCLUSIONS:

- WLAN transmitter is in co-location condition in relation to the WWAN transmitter, Ericsson F3507g, (WWAN antenna to WLAN antennas distance < 20 cm). WLAN contribution has to be considered when evaluating the exposure to electromagnetic fields due to the F3507g Ericsson Mobile Broadband Module installed in the DELL P01S laptop computer.
- Bluetooth transmitter is in co-location condition in relation to the WWAN transmitter, Ericsson F3507g, (WWAN antenna to Bluetooth antenna distance < 20 cm). Bluetooth contribution has to be considered when evaluating the exposure to electromagnetic fields due to the F3507g Ericsson Mobile Broadband Module installed in the DELL P01S laptop computer.
- WWAN transmitter, Ericsson F3507g, WLAN transmitters and Bluetooth transmitters are in mobile exposure conditions (antenna to user distance > 20 cm),

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A.3. TRANSMITTERS SPECIFICATIONS

MAIN/PRIMARY TRANSMITTER:

WWAN transmitter:

Type of equipment : Ericsson Mobile Broadband Module

Trade mark : Ericsson Model : F3507g

FCC ID : VV7-MBMF3507G-D

Output power : See table

Frequency Band	Mode	Frequency range (MHz)	Maximum conducted output power (dBm)	Maximum conducted output power (mW)	Duty Cycle	Equivalent conducted output power (mW)	Maximum antenna gain (dBi)	Maximum antenna gain (numerical)	EIRP (mW)
GSM 850	GSM/GPRS	824,2 - 848,8	33,00	1995,26	25%	498,82	1,60	1,45	721,01
G5W 650	EDGE	824,2 - 848,8	31,00	1258,93	25%	314,73	1,60	1,45	454,93
FDD V	WCDMA/HSDPA	826,4 - 846,6	23,62	230,14	100%	230,14	1,60	1,45	332,66
TDD V	HSUPA	826,4 - 846,6	23,08	203,24	100%	203,24	1,60	1,45	293,76
E-GSM 900	GSM/GPRS	880,2 - 914,8	33,99	2506,11	25%	626,53	1,60	1,45	905,61
E-G5W1 900	EDGE	880,2 - 914,8	27,00	501,19	25%	125,30	1,60	1,45	181,11
DCS 1800	GSM/GPRS	1710,2 - 1784,8	32,54	1794,73	25%	448,68	1,60	1,45	648,54
DC3 1800	EDGE	1710,2 - 1784,8	26,10	407,38	25%	101,85	1,60	1,45	147,21
PCS 1900	GSM/GPRS	1850,2 - 1909,8	29,30	851,14	25%	212,78	1,60	1,45	307,57
FCS 1900	EDGE	1850,2 - 1909,8	28,70	741,31	25%	185,33	1,60	1,45	267,88
FDD II	WCDMA/HSDPA	1852,4 - 1907,6	23,00	199,53	100%	199,53	1,60	1,45	288,40
וו טטז	HSUPA	1852,4 - 1907,6	22,80	190,55	100%	190,55	1,60	1,45	275,42
FDD I	WCDMA/HSDPA	1922,4 - 1977,6	22,40	173,78	100%	173,78	1,60	1,45	251,19
ו ממיז	HSUPA	1922,4 - 1977,6	22,10	162,18	100%	162,18	1,60	1,45	234,42

ADDITIONAL/SECONDARY TRANSMITTERS:

Bluetooth transmitters:

Type of equipment : Bluetooth 2.0 + EDR

Trade mark : Dell

Model : Wireless 370 FCC ID : QDS-BRCM1034

Output power : See table

Model name	FCC ID	Frequency range (MHz)	Maximum conducted output power (dBm)	Maximum conducted output power (mW)	Duty Cycle	Equivalent conducted output power (mW)	Maximum antenna gain (dBi)	Maximum antenna gain (numerical)	(mW)
Dell Wireless 370	QDS-BRCM1034	2400-2483,5	4,31	2,70	100%	2,70	3,00	2,00	5,39

WLAN transmitters:

Type of equipment : 802.11abgn WLAN transmitter

Trade mark : Intel

Model : WiFi Link 5300 FCC ID : E2K533ANH Output power : See table

Model name	FCC ID	Frequency range (MHz)	Maximum conducted output power (dBm)	Maximum conducted output power (mW)	Duty Cycle	Equivalent conducted output power (mW)	Maximum antenna gain (dBi)	Maximum antenna gain (numerical)	EIRP (mW)
	E2K533ANH	2400,0 - 2483,5	26,41	438,00	100%	438,00	3,00	2,00	873,92
Intel WiFi Link 5300		5150,0 - 5350,0	16,53	45,00	100%	45,00	3,00	2,00	89,79
		5470,0 - 5725,0	16,53	45,00	100%	45,00	3,00	2,00	89,79
		5725,0-5850,0	26,44	441,00	100%	441,00	3,00	2,00	879,91

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Annex B

ANNEX B

RF EXPOSURE ASSESSMENT

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B.1. MAXIMUM PERMISSIBLE EXPOSURE (MPE) LIMITS

B.1.1. FCC LIMITS

Normative documents:

- OET Bulletin 65 Edition 97-01 August 1997 Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields
- FCC 47 CFR § 1.1307 Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.
- FCC 47 CFR § 1.1310 Radiofrequency radiation exposure limits.1999/519/EC Council Recommendation on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)

Reference levels:

The table below is excerpted from Table 1B of 47 CFR 1.1310 titled Limits for Maximum Permissible Exposure (MPE), Limits for General Population/Uncontrolled Exposure:

Frequency Range (MHz)	Power density $(\frac{W}{m^2})$	Averaging time (minutes)
300 – 1500	$\frac{f(MHz)}{1500}$	30
1500 – 100.000	1.0	30

MPE limits:

- Main/Primary transmitter (F3507g Ericsson Mobile Broadband Module):

Frequency Band	Mode	Frequency Range (MHz)	Reference frequency (MHz)	$MPE \ limit \\ (S_{eq}) \\ (\frac{mW}{cm^2})$
GSM 850	GSM/GPRS	824,2 - 848,8	824,20	0,5495
GSW 650	EDGE	824,2 - 848,8	824,20	0,5495
FDD V	WCDMA/HSDPA	826,4 - 846,6	826,40	0,5509
FDD V	HSUPA	826,4 - 846,6	826,40	0,5509
PCS 1900	GSM/GPRS	1850,2 - 1909,8	1850,20	1,0000
PCS 1900	EDGE	1850,2 - 1909,8	1850,20	1,0000
FDD II	WCDMA/HSDPA	1852,4 - 1907,6	1852,40	1,0000
	HSUPA	1852,4 - 1907,6	1852,40	1,0000

- Additional/Secondary transmitters: All the transmission frequencies for WLAN and Bluetooth modules are above 1.5 GHz, so that the MPE limit is 1 mW/cm².

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B.1.2. EUROPEAN UNION MPE LIMITS

Normative document:

- 1999/519/EC Council Recommendation on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)

Reference levels:

The table below is excerpted from Table 2 of 1999/519/EC, titled "Reference levels for electric, magnetic and electromagnetic fields (0 Hz to 300 GHz, unperturbed rms values)":

Frequency range	E-field strength $(\frac{V}{m})$	H-field strength $(\frac{A}{m})$	B-field (μT)	$\begin{aligned} & Equivalent \\ & plane \ wave \\ & power \\ & density \ S_{eq} \\ & (\frac{W}{m^2}) \end{aligned}$
400 - 2000 MHz	$1,375 \cdot f(MHz)^{1/2}$	$0.0037 \cdot f(\textit{MHz})^{1/2}$	$0,0046 \cdot f(\mathit{MHz})^{1/2}$	$\frac{f(MHz)}{200}$
2 - 300 GHz	61	0,16	0,2	10

MPE limits:

- Main/Primary transmitter (F3507g Ericsson Mobile Broadband Module):

Frequency Band	Mode	Frequency Range (MHz)	Reference frequency (MHz)	$\begin{aligned} & \text{MPE limit} \\ & (S_{eq}) \\ & (\frac{mW}{cm^2}) \end{aligned}$
E-GSM 900	GSM/GPRS	880,2 - 914,8	880,20	0,4401
E-GSM 900	EDGE	880,2 - 914,8	880,20	0,4401
DCS 1800	GSM/GPRS	1710,2 - 1784,8	1710,20	0,8551
DC3 1000	EDGE	1710,2 - 1784,8	1710,20	0,8551
FDD I	WCDMA/HSDPA	1922,4 - 1977,6	1922,40	0,9612
	HSUPA	1922,4 - 1977,6	1922,40	0,9612

- Additional/Secondary transmitters: All the transmission frequencies for WLAN and Bluetooth modules are above 2 GHz, so that the MPE limit is 1 mW/cm².

B.1.3. AUSTRALIA MPE LIMITS

Normative documents:

- Radiocommunications (Electromagnetic Radiation Human Exposure) Standard 2003
- ARPANSA RPS No. 3 Maximum Exposure Levels to Radiofrequency Fields (3 kHz to 300 GHz)

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Reference levels:

The table below is excerpted from Table 7 of ARPANSA RPS No. 3, titled "Reference levels for time averaged exposure to RMS electric and magnetic fields (unperturbed rms values)":

Exposure category	Frequency range	E-field strength $(\frac{V}{m} \text{ rms})$	H-field strength $(\frac{A}{m} \text{ rms})$	$Equivalent \\ plane wave \\ power density \\ S_{eq} \\ (\frac{W}{m^2})$	$Equivalent \\ plane wave \\ power \\ density S_{eq} \\ (\frac{mW}{cm^2})$
General public	400 MHz - 2 GHz	$1,37 \cdot f (MHz)^{1/2}$	$0,00364 \cdot f(MHz)^{1/2}$	$\frac{f(MHz)}{200}$	$\frac{f(MHz)}{2000}$
General public	2 - 300 GHz	61	0,16	10	1

MPE limits:

- Main/Primary transmitter (F3507g Ericsson Mobile Broadband Module):

Frequency Band	Mode	Frequency Range (MHz)	Reference frequency (MHz)	$\begin{aligned} & \text{MPE limit} \\ & (S_{eq}) \\ & (\frac{mW}{cm^2}) \end{aligned}$
FDD V	WCDMA/HSDPA	826,4 - 846,6	826,40	0,4132
TDD V	HSUPA	826,4 - 846,6	826,40	0,4132
E-GSM 900	GSM/GPRS	880,2 - 914,8	880,20	0,4401
E-GSM 900	EDGE	880,2 - 914,8	880,20	0,4401
DCS 1800	GSM/GPRS	1710,2 - 1784,8	1710,20	0,8551
DCS 1000	EDGE	1710,2 - 1784,8	1710,20	0,8551
FDD I	WCDMA/HSDPA	1922,4 - 1977,6	1922,40	0,9612
I IDD I	HSUPA	1922,4 - 1977,6	1922,40	0,9612

- Additional/Secondary transmitters: All the transmission frequencies for WLAN and Bluetooth modules are above 2 GHz, so that the MPE limit is 1 mW/cm².

B.1.4. VODAFONE MPE LIMITS

Normative document:

- 1999/519/EC Council Recommendation on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)

Reference levels:

The table below is excerpted from Table 2 of 1999/519/EC, titled "Reference levels for electric, magnetic and electromagnetic fields (0 Hz to 300 GHz, unperturbed rms values)":

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Exposure category	Frequency range	E-field strength $(\frac{V}{m} \text{ rms})$	H-field strength $(\frac{A}{m} \text{ rms})$	$Equivalent \\ plane wave \\ power density \\ S_{eq} \\ (\frac{W}{m^2})$	$\begin{aligned} & Equivalent \\ & plane & wave \\ & power \\ & density & S_{eq} \\ & (\frac{mW}{cm^2}) \end{aligned}$
General public	400 MHz - 2 GHz	$1,37 \cdot f(MHz)^{1/2}$	$0,00364 \cdot f(MHz)^{1/2}$	$\frac{f(MHz)}{200}$	$\frac{f(MHz)}{2000}$
General public	2 - 300 GHz	61	0,16	10	1

MPE limits:

- Main/Primary transmitter (F3507g Ericsson Mobile Broadband Module):

Frequency Band	Mode	Frequency Range (MHz)	Reference frequency (MHz)	$MPE \ limit \\ (S_{Lim}) \\ (\frac{mW}{cm^2})$
GSM 850	GSM/GPRS	824,2 - 848,8	824,20	0,4121
GSW 650	EDGE	824,2 - 848,8	824,20	0,4121
FDD V	WCDMA/HSDPA	826,4 - 846,6	826,40	0,4132
TDD V	HSUPA	826,4 - 846,6	826,40	0,4132
E-GSM 900	GSM/GPRS	880,2 - 914,8	880,20	0,4401
E-G5W 900	EDGE	880,2 - 914,8	880,20	0,4401
DCS 1800	GSM/GPRS	1710,2 - 1784,8	1710,20	0,8551
DCS 1800	EDGE	1710,2 - 1784,8	1710,20	0,8551
PCS 1900	GSM/GPRS	1850,2 - 1909,8	1850,20	0,9251
PCS 1900	EDGE	1850,2 - 1909,8	1850,20	0,9251
FDD II	WCDMA/HSDPA	1852,4 - 1907,6	1852,40	0,9262
	HSUPA	1852,4 - 1907,6	1852,40	0,9262
FDD I	WCDMA/HSDPA	1922,4 - 1977,6	1922,40	0,9612
17001	HSUPA	1922,4 - 1977,6	1922,40	0,9612

- Additional/Secondary transmitters: All the transmission frequencies for WLAN and Bluetooth modules are above 2 GHz, so that the MPE limit is 1 mW/cm².

B.2. RF EXPOSURE ASSESSMENT – INDIVIDUAL TRANSMITTERS

B.2.1. INTRODUCTION

Calculations to predict power density levels in the far-field of the antenna are made by use of the following equation:

$$S = \frac{P \cdot G}{4\pi R^2} = \frac{EIRP}{4\pi R^2}$$

where: $S = power density (in appropriate units, e.g. <math>mW/cm^2$)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

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B.2.2. RF EXPOSURE ASSESSMENT FOR F3507g ERICSSON MOBILE BROADBAND MODULE INSTALLED IN DELL P01S LAPTOP COMPUTER

FCC REQUIREMENTS

Frequency Band	Mode	Frequency Range (MHz)	EIRP (mW)	Evaluation distance (R) (cm)	Power Density (S_{eq}) $S = \frac{P \cdot G}{4\pi R^2} = \frac{EIRP}{4\pi R^2}$ $\left(\frac{\mathbf{mW}}{\mathbf{cm}^2}\right)$	$MPE \ limit \\ (S_{Lim}) \\ (\frac{mW}{cm^2})$	$\begin{aligned} & \textbf{COMPLIANCE} \\ & (S_{eq} < S_{Lim}) \\ & (\frac{\textbf{mW}}{\textbf{cm}^2}) \end{aligned}$
GSM 850	GSM/GPRS	824,2 - 848,8	721,01	20,60	0,1352	0,5495	COMPLIANT
GSM 630	EDGE	824,2 - 848,8	454,93	20,60	0,0853	0,5495	COMPLIANT
FDD V	WCDMA/HSDPA	826,4 - 846,6	332,66	20,60	0,0624	0,5509	COMPLIANT
LDD A	HSUPA	826,4 - 846,6	293,76	20,60	0,0551	0,5509	COMPLIANT
PCS 1900	GSM/GPRS	1850,2 - 1909,8	307,57	20,60	0,0577	1,0000	COMPLIANT
103 1900	EDGE	1850,2 - 1909,8	267,88	20,60	0,0502	1,0000	COMPLIANT
FDD II	WCDMA/HSDPA	1852,4 - 1907,6	288,40	20,60	0,0541	1,0000	COMPLIANT
וו טטיו	HSUPA	1852,4 - 1907,6	275,42	20,60	0,0516	1,0000	COMPLIANT

EUROPEAN UNION REQUIREMENTS

Frequency Band	Mode	Frequency Range (MHz)	EIRP (mW)	Evaluation distance (R) (cm)	Power Density (S_{eq}) $S = \frac{P \cdot G}{4\pi R^2} = \frac{EIRP}{4\pi R^2}$ $\left(\frac{\mathbf{mW}}{\mathbf{cm}^2}\right)$	$MPE \ limit \\ (S_{Lim}) \\ (\frac{mW}{cm^2})$	$\begin{aligned} & \textbf{COMPLIANCE} \\ & (S_{eq} < S_{Lim}) \\ & (\frac{mW}{cm^2}) \end{aligned}$
E-GSM 900	GSM/GPRS	880,2 - 914,8	905,61	20,60	0,1698	0,4401	COMPLIANT
E-05W 900	EDGE	880,2 - 914,8	181,11	20,60	0,0340	0,4401	COMPLIANT
DCS 1800	GSM/GPRS	1710,2 - 1784,8	648,54	20,60	0,1216	0,8551	COMPLIANT
DC3 1800	EDGE	1710,2 - 1784,8	147,21	20,60	0,0276	0,8551	COMPLIANT
FDD I	WCDMA/HSDPA	1922,4 - 1977,6	251,19	20,60	0,0471	0,9612	COMPLIANT
ו עשיו	HSUPA	1922,4 - 1977,6	234,42	20,60	0,0440	0,9612	COMPLIANT

AUSTRALIA REQUIREMENTS

Frequency Band	Mode	Frequency Range (MHz)	EIRP (mW)	Evaluation distance (R) (cm)	Power Density (S_{eq}) $S = \frac{P \cdot G}{4\pi R^2} = \frac{EIRP}{4\pi R^2}$ $\left(\frac{\mathbf{mW}}{\mathbf{cm}^2}\right)$	$MPE \ limit \\ (S_{Lim}) \\ (\frac{mW}{cm^2})$	$\begin{aligned} & \textbf{COMPLIANCE} \\ & (S_{eq} < S_{Lim}) \\ & (\frac{mW}{cm^2}) \end{aligned}$
FDD V	WCDMA/HSDPA	826,4 - 846,6	332,66	20,60	0,0624	0,4132	COMPLIANT
י עעז	HSUPA	826,4 - 846,6	293,76	20,60	0,0551	0,4132	COMPLIANT
E-GSM 900	GSM/GPRS	880,2 - 914,8	905,61	20,60	0,1698	0,4401	COMPLIANT
E-GSM 900	EDGE	880,2 - 914,8	181,11	20,60	0,0340	0,4401	COMPLIANT
DCS 1800	GSM/GPRS	1710,2 - 1784,8	648,54	20,60	0,1216	0,8551	COMPLIANT
DC3 1800	EDGE	1710,2 - 1784,8	147,21	20,60	0,0276	0,8551	COMPLIANT
FDD I	WCDMA/HSDPA	1922,4 - 1977,6	251,19	20,60	0,0471	0,9612	COMPLIANT
ו טטיו	HSUPA	1922,4 - 1977,6	234,42	20,60	0,0440	0,9612	COMPLIANT

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VODAFONE REQUIREMENTS

Frequency Band	Mode	Frequency Range (MHz)	EIRP (mW)	Evaluation distance (R) (cm)	Power Density (S_{eq}) $S = \frac{P \cdot G}{4\pi R^2} = \frac{EIRP}{4\pi R^2}$ $\left(\frac{\mathbf{mW}}{\mathbf{cm}^2}\right)$	$MPE \ limit \\ (S_{Lim}) \\ (\frac{mW}{cm^2})$	$\begin{aligned} & COMPLIANCE \\ & (S_{eq} < S_{Lim}) \\ & (\frac{mW}{cm^2}) \end{aligned}$
GSM 850	GSM/GPRS	824,2 - 848,8	721,01	20,60	0,1352	0,4121	COMPLIANT
G5W 650	EDGE	824,2 - 848,8	454,93	20,60	0,0853	0,4121	COMPLIANT
FDD V	WCDMA/HSDPA	826,4 - 846,6	332,66	20,60	0,0624	0,4132	COMPLIANT
TDD V	HSUPA	826,4 - 846,6	293,76	20,60	0,0551	0,4132	COMPLIANT
E-GSM 900	GSM/GPRS	880,2 - 914,8	905,61	20,60	0,1698	0,4401	COMPLIANT
E-03M 900	EDGE	880,2 - 914,8	181,11	20,60	0,0340	0,4401	COMPLIANT
DCS 1800	GSM/GPRS	1710,2 - 1784,8	648,54	20,60	0,1216	0,8551	COMPLIANT
DCS 1800	EDGE	1710,2 - 1784,8	147,21	20,60	0,0276	0,8551	COMPLIANT
PCS 1900	GSM/GPRS	1850,2 - 1909,8	307,57	20,60	0,0577	0,9251	COMPLIANT
PCS 1900	EDGE	1850,2 - 1909,8	267,88	20,60	0,0502	0,9251	COMPLIANT
EDD II	WCDMA/HSDPA	1852,4 - 1907,6	288,40	20,60	0,0541	0,9262	COMPLIANT
FDD II	HSUPA	1852,4 - 1907,6	275,42	20,60	0,0516	0,9262	COMPLIANT
EDD I	WCDMA/HSDPA	1922,4 - 1977,6	251,19	20,60	0,0471	0,9612	COMPLIANT
FDD I	HSUPA	1922,4 - 1977,6	234,42	20,60	0,0440	0,9612	COMPLIANT

B.2.3. RF EXPOSURE ASSESSMENT FOR SECONDARY TRANSMITTERS INSTALLED IN DELL P01S LAPTOP COMPUTER

Model name	FCC ID	Frequency range (MHz)	EIRP (mW)	Evaluation distance (cm)	Power Density (S_{eq}) $S = \frac{P \cdot G}{4\pi R^2} = \frac{EIRP}{4\pi R^2}$ $\left(\frac{\mathbf{mW}}{\mathbf{cm}^2}\right)$	MPE limit	$\begin{aligned} & COMPLIANCE \\ & (S_{eq} < S_{Lim}) \end{aligned}$
Dell Wireless 370	QDS-BRCM1034	2400-2483,5	5,39	20,60	0,0010	1,0000	COMPLIANT
		2400,0 - 2483,5	873,92	20,60	0,1639	1,0000	COMPLIANT
Intel WiFi Link 5300		5150,0 - 5350,0	89,79	20,60	0,0168	1,0000	COMPLIANT
	E2K533ANH	5470,0 - 5725,0	89,79	20,60	0,0168	1,0000	COMPLIANT
		5725,0-5850,0	879,91	20,60	0,1650	1,0000	COMPLIANT

B.3. RF EXPOSURE ASSESSMENT – CO-LOCATION CONSIDERATIONS

B.3.1. INTRODUCTION

In situations where simultaneous exposure to fields of different equipment and frequencies occurs, the possibility that these exposures will be additive in their effects must be considered. Calculations based on this additivity are performed by the sum of relative exposure for each equipment according to the following compliance criteria:

$$\sum_{1}^{N} \frac{S_{eqn}}{S_{Limn}} = \frac{S_{eq1}}{S_{Lim1}} + \frac{S_{eq2}}{S_{Lim2}} + \dots + \frac{S_{eqN}}{S_{LimN}} \le 1$$

where:

 S_{eq} is the power density of the electromagnetic field caused, at a given distance (evaluation distance), by a specific equipment transmitting at a defined frequency.

 S_{Lim} is the MPE limit for the evaluated transmission frequency.

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B.3.2. FCC REQUIREMENTS

RELATIVE EXPOSURE FOR F3507g ERICSSON BROADBAND MODULE

Frequency Band	Mode	Frequency Range (MHz)	$S_{ m eq}$	S_{Lim}	$\frac{\mathbf{S}_{\mathrm{eq}}}{\mathbf{S}_{\mathrm{Lim}}}$
GSM 850	GSM/GPRS	824,2 - 848,8	0,1352	0,5495	0,2461
GSM 850	EDGE	824,2 - 848,8	0,0853	0,5495	0,1553
FDD V	WCDMA/HSDPA	826,4 - 846,6	0,0624	0,5509	0,1132
	HSUPA	826,4 - 846,6	0,0551	0,5509	0,1000
PCS 1900	GSM/GPRS	1850,2 - 1909,8	0,0577	1,0000	0,0577
FCS 1900	EDGE	1850,2 - 1909,8	0,0502	1,0000	0,0502
FDD II	WCDMA/HSDPA	1852,4 - 1907,6	0,0541	1,0000	0,0541
TDD II	HSUPA	1852,4 - 1907,6	0,0516	1,0000	0,0516

RELATIVE EXPOSURE FOR SECONDARY TRANSMITTERS

Model name	FCC ID	Frequency range (MHz)	$S_{ m eq}$	S_{Lim}	$\frac{S_{eq}}{S_{Lim}}$
Dell Wireless 370	QDS-BRCM1034	2400 - 2483,5	0,0010	1,0000	0,0010
Intel WiFi Link 5300	E2K533ANH	2400,0 - 2483,5	0,1639	1,0000	0,1639
		5150,0 - 5350,0	0,0168	1,0000	0,0168
		5470,0 - 5725,0	0,0168	1,0000	0,0168
		5725,0-5850,0	0,1650	1,0000	0,1650

Equipment		$\frac{\mathbf{S_{eq}}}{\mathbf{S_{Lim}}}$	$\begin{aligned} & & & \frac{S_{Pri}}{S_{Lim_Pri}} + \\ & & & \frac{S_{Sec_WLAN}}{S_{Lim_Sec_WLAN}} \\ & & + \frac{S_{Sec_BT}}{S_{Lim_Sec_BT}} \end{aligned}$	$\frac{S_{Pri}}{S_{Lim_Pri}} + \\ \frac{S_{Sec_WLAN}}{S_{Lim_Sec_WLAN}} + < 1 \\ \frac{S_{Sec_BT}}{S_{Lim_Sec_BT}}$
Primary transmitter	Ericsson F3507g	0,2461		
Secundary transmitter (Bluetooth)	Dell Wireless 370	0,0010	0,4121	COMPLIANT
Secundary transmitter (WLAN)	Intel WiFi Link 5300	0,1650		

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B.3.3. EUROPEAN UNION REQUIREMENTS

RELATIVE EXPOSURE FOR F3507g ERICSSON BROADBAND MODULE

Frequency Band	Mode	Frequency Range (MHz)	$\mathbf{S}_{ ext{eq}}$	$S_{ m Lim}$	$\frac{\mathbf{S}_{\mathrm{eq}}}{\mathbf{S}_{\mathrm{Lim}}}$
E CSM 000	GSM/GPRS	880,2 - 914,8	0,1698	0,4401	0,3859
E-GSM 900	EDGE	880,2 - 914,8	0,0340	0,4401	0,0772
DCS 1800	GSM/GPRS	1710,2 - 1784,8	0,1216	0,8551	0,1422
DCS 1800	EDGE	1710,2 - 1784,8	0,0276	0,8551	0,0323
EDD I	WCDMA/HSDPA	1922,4 - 1977,6	0,0471	0,9612	0,0490
FDD I	HSUPA	1922,4 - 1977,6	0,0440	0,9612	0,0457

RELATIVE EXPOSURE FOR SECONDARY TRANSMITTERS

Model name	FCC ID	Frequency range (MHz)	$S_{ m eq}$	S_{Lim}	$\frac{S_{eq}}{S_{Lim}}$
Dell Wireless 370	QDS-BRCM1034	2400-2483,5	0,0010	1,0000	0,0010
Intel WiFi Link 5300		2400,0 - 2483,5	0,1639	1,0000	0,1639
	E2K533ANH	5150,0 - 5350,0	0,0168	1,0000	0,0168
	EZKSSSAMII	5470,0 - 5725,0	0,0168	1,0000	0,0168
		5725,0-5850,0	0,1650	1,0000	0,1650

Equip	oment	$\frac{\mathbf{Maximum}}{\mathbf{S}_{\mathrm{eq}}}$	$\begin{aligned} & & & \frac{S_{Pri}}{S_{Lim_Pri}} + \\ & & \frac{S_{Sec_WLAN}}{S_{Lim_Sec_WLAN}} \\ & & + \frac{S_{Sec_BT}}{S_{Lim_Sec_BT}} \end{aligned}$	$\frac{S_{Pri}}{S_{Lim_Pri}} + \\ \frac{S_{Sec_WLAN}}{S_{Lim_Sec_WLAN}} + < 1 \\ \frac{S_{Sec_BT}}{S_{Lim_Sec_BT}}$
Primary transmitter	Ericsson F3507g	0,3859		
Secundary transmitter (Bluetooth)	Dell Wireless 370	0,0010	0,5519	COMPLIANT
Secundary transmitter (WLAN)	Intel WiFi Link 5300	0,1650		

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B.3.4. AUSTRALIA REQUIREMENTS

RELATIVE EXPOSURE FOR F350g ERICSSON BROADBAND MODULE

Manufacturer	Model name	Frequency range (MHz)	$\mathbf{S}_{ ext{eq}}$	S_{Lim}	$\frac{S_{eq}}{S_{Lim}}$
FDD V	WCDMA/HSDPA	826,4 - 846,6	0,0624	0,4132	0,1510
LDD A	HSUPA	826,4 - 846,6	0,0551	0,4132	0,1333
E-GSM 900	GSM/GPRS	880,2 - 914,8	0,1698	0,4401	0,3859
E-GSM 900	EDGE	880,2 - 914,8	0,0340	0,4401	0,0772
DCS 1800	GSM/GPRS	1710,2 - 1784,8	0,1216	0,8551	0,1422
DCS 1800	EDGE	1710,2 - 1784,8	0,0276	0,8551	0,0323
FDD I	WCDMA/HSDPA	1922,4 - 1977,6	0,0471	0,9612	0,0490
TDDT	HSUPA	1922,4 - 1977,6	0,0440	0,9612	0,0457

RELATIVE EXPOSURE FOR SECONDARY TRANSMITTERS

Model name	FCC ID	Frequency range (MHz)	$S_{ m eq}$	S_{Lim}	$\frac{S_{eq}}{S_{Lim}}$
Dell Wireless 370	QDS-BRCM1034	2400-2483,5	0,0010	1,0000	0,0010
Intel WiFi Link 5300		2400,0 - 2483,5	0,1639	1,0000	0,1639
	E2K533ANH	5150,0 - 5350,0	0,0168	1,0000	0,0168
	EZKJJJANH	5470,0 - 5725,0	0,0168	1,0000	0,0168
		5725,0-5850,0	0,1650	1,0000	0,1650

Equip	oment	$\frac{\mathbf{S_{eq}}}{\mathbf{S_{Lim}}}$	$\begin{aligned} & \frac{S_{Pri}}{S_{Lim_Pri}} + \\ & \frac{S_{Sec_WLAN}}{S_{Lim_Sec_WLAN}} \\ & + \frac{S_{Sec_BT}}{S_{Lim_Sec_BT}} \end{aligned}$	$\frac{S_{Pri}}{S_{Lim_Pri}} + \\ \frac{S_{Sec_WLAN}}{S_{Lim_Sec_WLAN}} + < 1 \\ \frac{S_{Sec_BT}}{S_{Lim_Sec_BT}}$
Primary transmitter	Ericsson F3507g	0,3859		
Secundary transmitter (Bluetooth)	Dell Wireless 370	0,0010	0,5519	COMPLIANT
Secundary transmitter (WLAN)	Intel WiFi Link 5300	0,1650		

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B.3.5. VODAFONE REQUIREMENTS

RELATIVE EXPOSURE FOR F3507g ERICSSON BROADBAND MODULE

Manufacturer	Model name	Frequency range (MHz)	S_{eq}	S_{Lim}	$\frac{\mathbf{S}_{\mathrm{eq}}}{\mathbf{S}_{\mathrm{Lim}}}$
GSM 850	GSM/GPRS	824,2 - 848,8	0,1352	0,4121	0,3281
USWI 630	EDGE	824,2 - 848,8	0,0853	0,4121	0,2070
FDD V	WCDMA/HSDPA	826,4 - 846,6	0,0624	0,4132	0,1510
TDD V	HSUPA	826,4 - 846,6	0,0551	0,4132	0,1333
E-GSM 900	GSM/GPRS	880,2 - 914,8	0,1698	0,4401	0,3859
E-GSWI 900	EDGE	880,2 - 914,8	0,0340	0,4401	0,0772
DCS 1800	GSM/GPRS	1710,2 - 1784,8	0,1216	0,8551	0,1422
DCS 1600	EDGE	1710,2 - 1784,8	0,0276	0,8551	0,0323
PCS 1900	GSM/GPRS	1850,2 - 1909,8	0,0577	0,9251	0,0623
PCS 1900	EDGE	1850,2 - 1909,8	0,0502	0,9251	0,0543
FDD II	WCDMA/HSDPA	1852,4 - 1907,6	0,0541	0,9262	0,0584
երը II	HSUPA	1852,4 - 1907,6	0,0516	0,9262	0,0558
FDD I	WCDMA/HSDPA	1922,4 - 1977,6	0,0471	0,9612	0,0490
רטט ו	HSUPA	1922,4 - 1977,6	0,0440	0,9612	0,0457

RELATIVE EXPOSURE FOR SECONDARY TRANSMITTERS

Model name	FCC ID	Frequency range (MHz)	S_{eq}	S_{Lim}	$\frac{\mathbf{S}_{\mathrm{eq}}}{\mathbf{S}_{\mathrm{Lim}}}$
Dell Wireless 370	QDS-BRCM1034	2400-2483,5	0,0010	1,0000	0,0010
Intel WiFi Link 5300		2400,0 - 2483,5	0,1639	1,0000	0,1639
	E2K533ANH	5150,0 - 5350,0	0,0168	1,0000	0,0168
	L2K333AMII	5470,0 - 5725,0	0,0168	1,0000	0,0168
		5725,0-5850,0	0,1650	1,0000	0,1650

Equip	oment	$\frac{\mathbf{S_{eq}}}{\mathbf{S_{Lim}}}$	$\begin{aligned} & & & \frac{S_{Pri}}{S_{Lim_Pri}} + \\ & & & \frac{S_{Sec_WLAN}}{S_{Lim_Sec_WLAN}} \\ & & & + \frac{S_{Sec_BT}}{S_{Lim_Sec_BT}} \end{aligned}$	$\begin{aligned} & \frac{S_{Pri}}{S_{Lim_Pri}} + \\ & \frac{S_{Sec_WLAN}}{S_{Lim_Sec_WLAN}} + < 1 \\ & \frac{S_{Sec_BT}}{S_{Lim_Sec_BT}} \end{aligned}$
Primary transmitter	Ericsson F3507g	0,3859		
Secundary transmitter (Bluetooth)	Dell Wireless 370	0,0010	0,5519	COMPLIANT
Secundary transmitter (WLAN)	Intel WiFi Link 5300	0,1650		

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